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REPORT

SUBJECT Metal Works in Skarzysko Kamienna

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report containing the following information on the Skarzysko Kamienna Metal Works: pinpoint location, site layout, history, labor force, operations, items produced, foundry capacity, and security measures.

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ARMY review completed.

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SKARZYSKO KAMIENNA METAL ENTERPRISES IN POLAND (C)

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Summary: This report contains information on the Skarzysko Kamienna Metal Enterprises (Zakłady Metalowe Skarzysko Kamienna), including pinpoint location, site layout, history, labor force, operations, items produced, foundry capacity, and security measures.

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## SKARZYSKO KAMIENNA METAL ENTERPRISES IN POLAND (C)

1. Location

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The Skarszysko Kamienna Metal Enterprises (Zaklady Metalowe) were located in SKARZYSKO KAMIENNA (N51-08, E20-52)(UTM DB-9163). This installation was divided into three main areas; for the purpose of this report, these areas will be referred to as Area Nr 1, Area Nr 2, and Area Nr 3. Annex A shows a sketch of the location of the Metal Enterprises. Annex B shows a sketch of the site layout of Area Nr 1.

[redacted] this area had approximately 20 or more buildings, about 10 x 10 m in size, which looked like homes, and which were about 100 m apart; the area was heavily wooded and was served by concrete roads and roads of crushed rock, and gave the appearance of a housing colony; the description is based on observation in 1939 and on hearsay, 1950 to 1957.

2. History

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This installation was built about 1926 for the purpose of producing ammunition; the Poles used it as an ammunition plant up to the time of WW II. During WW II, the Germans used the plant for ammunition production. In 1946, the foundry was producing hand grenades and civilian goods.

[redacted] about 1948 the Poles reopened the entire plant, and artillery ammunition was produced there from that time to 1958; [redacted] artillery ammunition was still being produced there. [redacted] in 1939;

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[redacted] artillery ammunition was in production. [redacted]

3. Organization

(See Annex C.) Operationally, it came directly under the Central Administration for Precision Manufacture (Centralny Zarzad Przemyslu Wyrobow Precyzyjnych), which came under the Ministry of Heavy Industry (Ministerstwo Przemyslu Ciezkiego). The Special Industries Construction Projects Bureau (Biuro Projektow Budownictwa Przemyslu Specjalnego) was responsible for construction and for major repairs of the plant.

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4. Operations and Production

## a. Area Nr 1

## (1) General (See Annex B)

Area Nr 1 produced artillery projectiles and shell casings, which were presumably sent to Area Nr 3 for filling with ammunition powder and for assembly. This area also produced artillery fuses (zapalniki) and small arms ammunition for pistols, rifles, and machineguns, as well as sewing machines and farm equipment.

[redacted] 100-mm and 150-mm artillery shells at this installation and [redacted] that was the caliber of artillery rounds produced there, [redacted]

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[redacted] the Metal Enterprises had their own water wells for water supply. Area Nr 1 used outside electric power. [redacted] there were two sources of electric power, but that only one was used and the other was in readiness for emergencies. [redacted] one source came from a westerly direction and one from an easterly direction: [redacted]

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[redacted] the machinery in Area Nr 1 was primarily of Polish and Soviet manufacture, [redacted] There were also small numbers of German [redacted] machines.

## (2) Foundry (Odlewnia)

In 1955, the foundry produced sewing machines and farm machinery, such as potato diggers and manure spreaders; it did not produce any military equipment, but made machine bases (podstawy), machine heads or turrets (glowicy), machine covers or guards (pokrywy), and parts for lathes as required by the Metal Enterprises. In 1958, the foundry produced the same type of products as it did in 1955.

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[redacted] the foundry norm for 1953 was 2200 tons and [redacted] it was completed; [redacted]

Generally the incentives for completing or exceeding the norm were in the form of extra pay for workers. If a norm was fulfilled, workers received 100 to 120 percent of their regular pay; if the norm was exceeded, they received 110 to 150 percent of their regular pay.

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[redacted] the foundry produced 3000 tons (1 ton equals 1000 kg) per year; its actual capacity was 5000 tons per year. Foundry operations were both manual and mechanized; a greater use of mechanization would have increased production capacity by a substantial (unknown) amount. [redacted]

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Beginning in 1956, some of the moulding operations, which were formerly all done by hand, were done by machine; smelting furnaces (zeliwiaki), which were formerly loaded manually, were loaded by mechanical means; and wagons, which formerly had been pushed by hand, were motorized. The foundry had two smelting furnaces, each of 700-mm inner diameter. A third furnace, of the same diameter, was to be installed in 1956-1957 in accordance with [redacted] reorganization of the foundry; [redacted]

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The pig iron used by the foundry came from Silesia. [redacted] not sure of the cost but estimated it at 50 groszy per kilogram. [redacted] the foundry got its scrap iron [redacted] estimated [redacted] as 20 to 30 groszy per kilogram. [redacted] of iron shipped to the foundry [redacted] about 45 percent was scrap iron and 55 percent pig iron.

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## b. Area Nr 2

[redacted] this area was referred to as "Rakieciarnia" (rocket plant - fabrika rakiet) both before WW II and in 1954-1957. [redacted] area produced ammunition powder and artillery fuses (types unknown), [redacted]

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## c. Area Nr 3

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[redacted] this area, which was referred to as "elaboracja" (elaboration, assembly, or finishing), received the projectiles, shell casings, fuses, and ammunition powder from the other two areas and completed the finished product, which was the artillery round ready for firing.

## d. Test Firing Range

[redacted] there was a test firing range somewhere in the vicinity where artillery rounds were test fired.

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5. Labor

## a. Number

[redacted] in 1951-1952 there was an increase in employment at this plant. [redacted] between 1952 and 1957 the labor force numbered approximately 5000 workers. In 1957 there was a reduction in labor force, and thereafter the working strength figure was about 3500 to 4000. Women comprised approximately 30 percent of the work force.

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[redacted] armament production in Poland was boosted in 1950 to 1953, but, after STALIN's death, less emphasis was placed on war goods production. [redacted] the 1957 reduction in labor force at the Metal Enterprises was due to a cut in the budget or to the fact that there was no need to expand the labor force for civilian goods production.

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The workers at the Metal Enterprises came from SKARZYSKO KAMIENNA and from the area within an approximate 15 km radius of SKARZYSKO KAMIENNA, including the towns of SZYDLOWIEC (N51-14, E20-51) (UTM DB-9075) and SUCHEDNIOW (N51-04, E20-50) (UTM DB-8855).

## b. Work Shifts

[redacted] there were two work shifts, from 0700 to 1500 hours and from 1500 to 2300 hours, Monday through Friday; on Saturday, the two shifts worked from 0700 to 1300 hours and from 1300 to 1900 hours. [redacted] some sections operated a third shift from 2300 to 0700 hours.

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[redacted] The first shift had more workers than the second shift.

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[redacted] 7 religious holidays and 2 national holidays were observed during the year when people did not work.

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6. Security Measures

## a. Barrier

Area Nr 1 was enclosed by a brick and concrete wall on the northwestern side and by barbed wire elsewhere. The brick and concrete wall had barbed wire on top. The height of the fence or wall was about 2½ to 3 m.

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[redacted] Area Nr 2 was separated from Area Nr 1 by a barbed wire fence as described above.

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b. Guards

Industrial guards (Straz Przemyslowa) secured the installation at Area Nr 1. They were at the entrance and were also observed walking along the inside perimeter. [redacted] they were not armed.

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[redacted] there were military personnel at certain (unknown) areas of production and at the test firing range. [redacted] about five or six army officers comprised this military group, which was called the military receiver or buyer (wojskowy odbiur) section.

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c. Other Measures

To gain entry into Area Nr 1, an individual had to show a permanent worker's pass at the gate (see Annex B, Item 30) and sometimes at the inner gate (see Annex B, Item 32). A visitor received a temporary pass from building Nr 31 (Annex B), had it endorsed in building Nr 25 (Annex B), and then showed it at the inner gate (see Annex B, Item 32).

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Area Nr 2, the "rocket plant" (par 4b) was restricted [redacted]

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Annex A

PINPOINT LOCATION OF SKARZYSKO KAMIENNA METAL ENTERPRISES IN SKARZYSKO  
KAMIENNA (N51-08,E20-52)(UTM DB-9163),Poland

Map Reference:

KIELCE,



Poland 1:100,000

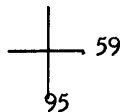
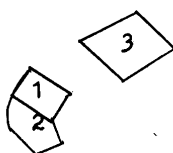
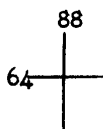


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Legend:

1. Area Nr 1
2. Area Nr 2
3. Area Nr 3



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Annex B

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SKETCH OF AREA NR 1 OF SKARZYSKO KAMIENNA METAL ENTERPRISE  
(Not drawn to scale)

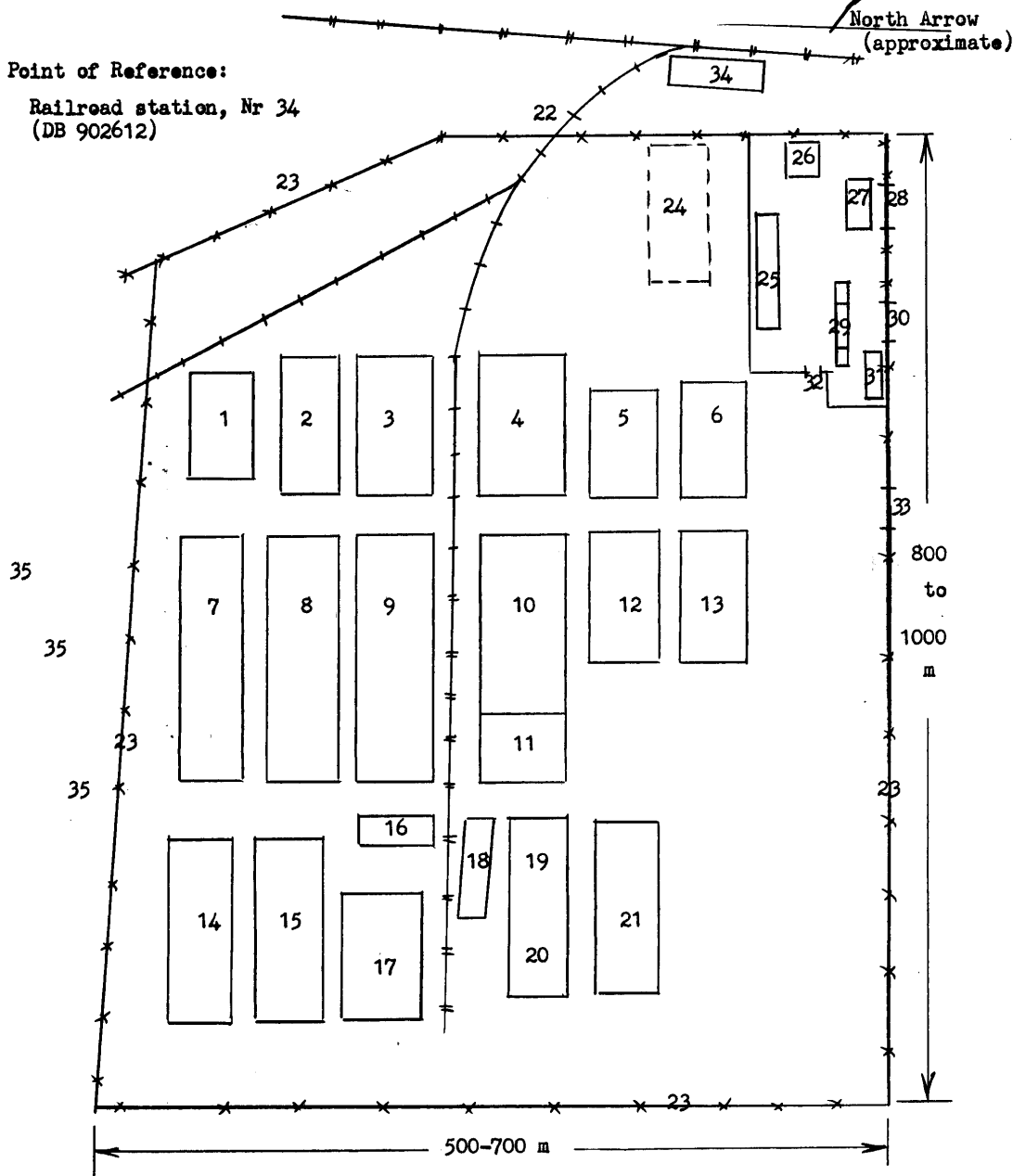
Map Reference:

KIELCE, Poland

1:100,000

Point of Reference:

Railroad station, Nr 34  
(DB 902612)



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Legend to Annex B

Note: All buildings were generally of concrete and steel construction, and gray in color; thicknesses of materials were unknown. Concrete supports were reinforced and about 60 cm square in cross section.

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1. Heating plant, concrete construction, measured approximately 40 x 30 x 10 m.
2. Warehouse, 60 x 40 x 5 m.
3. Warehouse, 60 x 40 x 5 m.
4. Press mill for projectiles, 70 x 40 x 10 m; hydraulic presses; part of the building was used for storage.
5. Press mill for projectiles, 55 x 40 x 10 m; hydraulic presses.
6. Press mill for shell casings, 60 x 40 x 10 m; hydraulic presses
7. Small arms ammunition production building, about 150 x 50 x 6 m.
8. Small arms ammunition production building, about 150 x 50 x 6 m.
9. Building for production of machined parts for artillery shells, measured about 150 x 50 x 6 m.
10. Production of machined parts for artillery shells; buildings Nr 10 and Nr 11 together measured about 150 x 50 x 6 m. 50X1-HUM
11. Foundry; building had about a 50- to 60-meter-high chimney; the chimney was to be taken down.
12. Production of fuses for artillery rounds; building measured about 60 x 40 x 6 m.
13. Production of fuses for artillery rounds; building measured about 60 x 40 x 6 m.
14. Cabinetmaker's shop where packing boxes were produced; building measured about 100 x 30 x 6 m.
15. Production of machine tools for factory needs; building measured 100 x 30 x 6 m.
16. Foundry warehouse, measured 25 x 9 x 4½ m.
17. Machine repair shop for factory, measured 50 x 40 x 6 m.
18. Foundry warehouse, measured 25 x 9 x 4½ m.
19. Point where foundry products were cleaned; buildings Nr 19 and Nr 20 together measured about 100 x 30 x 6 m.
20. Shop where lead was melted, where lead wire and lead shot were produced; lead from this shop was used in production of small arms ammunition.
21. Unknown; this building might have been a warehouse; building measured about 100 x 30 x 6 m. 50X1-HUM

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Legend to Annex B (Continued)

22. Railroad line which branched off from the RADOM (N51-25, E21-09)(UTM EB-1194)-TUNEL (N50-26, E19-59)(UTM DA-2988) sector at SKARZYSKO KAMIENNA, and which separated into two fingers, one which served Area Nr 1 and one which served Area Nr 2 at the Skarzysko Kamienna Metal Enterprises. 50X1-HUM
- the rail line between buildings Nr 17 and Nr 18 was single-track and that the rail line between buildings Nr 9 and Nr 10 was double-track.
23. Barrier, wall and/or barbed wire fence, 2½ to 3 m high.
24. New concrete building was being constructed here in 1957 and was 50 to 60 percent completed. The purpose of the building was not known.
25. Directorate for Skarzysko Kamienna Metal Enterprises; brick and plaster construction; building had 2 floors and measured 80 x 12 x 10 m.
26. Barracks for industrial guards; brick and plaster construction; 12 x 8 x 7 m, 1 floor.
27. Fire department with personnel and fire engines, 12 x 7 x 4 m.
28. Entry and exit gate, for fire department only.
29. Two small buildings connected by an overhead roof. At this point, workers moved numbered cards into certain slots on boards to indicate they were present for work; guards occasionally searched worker personnel for unauthorized items.
30. Main gate for personnel; individuals who passed through this gate had to show a permanent worker's pass or other means of identification.
31. Building with guard personnel where temporary passes were issued to individuals for entry through building Nr 30; building was about 8 x 5 x 6 m.
32. Entry into production area. A guard was stationed at this point, but he primarily checked only visitors' passes issued from building Nr 25. A net wire fence, approximately 1½ to 2 m high, separated the production area from the area where the Directorate and fire department were located.
33. Gate, which [ ] was not in use. 50X1-HUM
34. Railroad station. The railroad which passed through this station was double-track from RADOM to TUNEL.
35. Area Nr 2 of the Skarzysko Kamienna Metal Enterprises.

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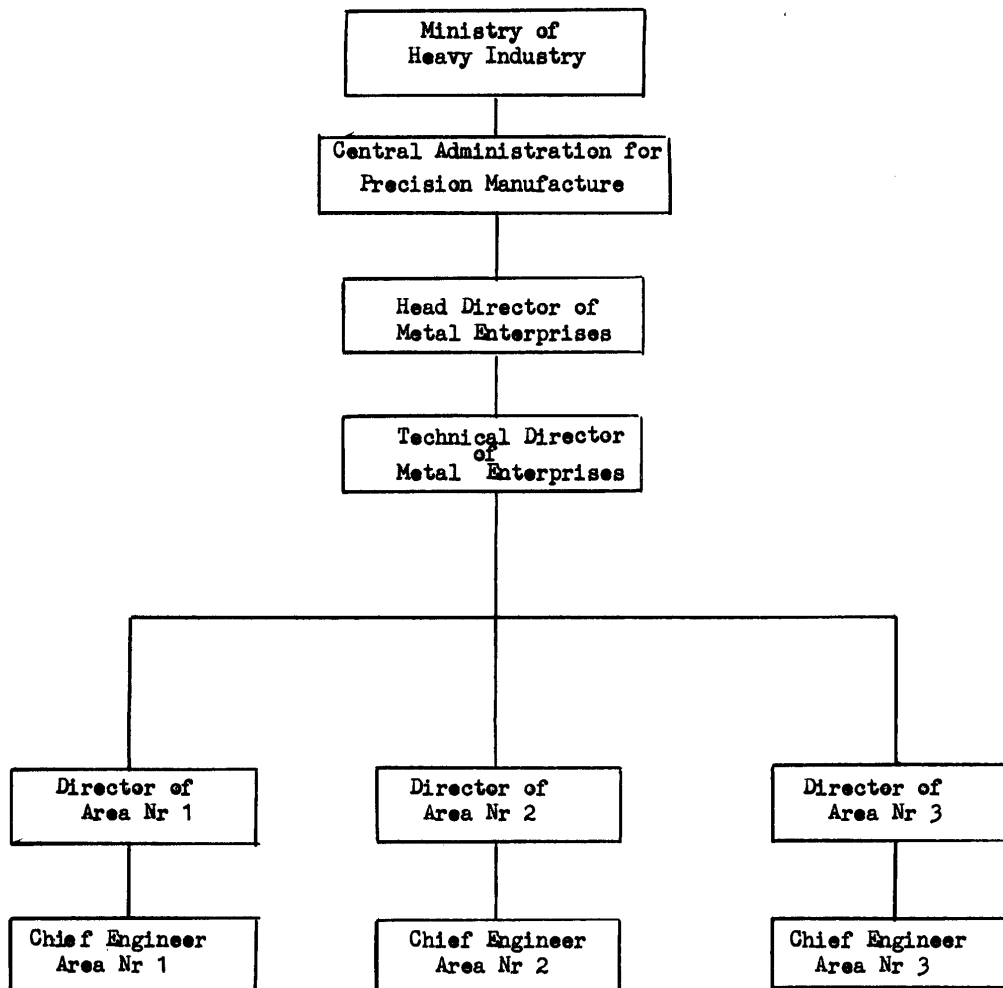
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Annex C

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ORGANIZATION OF METAL ENTERPRISES  
IN POLAND

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